

## Surfrider Foundation

- Mission: non-profit grassroots organization dedicated to the protection and enjoyment of our world's oceans, waves and beaches through a powerful activist network.
- Founded in 1984 by a handful of visionary surfers in Malibu, California
- Over 250,000 supporters, activists and members worldwide.

# Surfrider Foundation Chapter Network

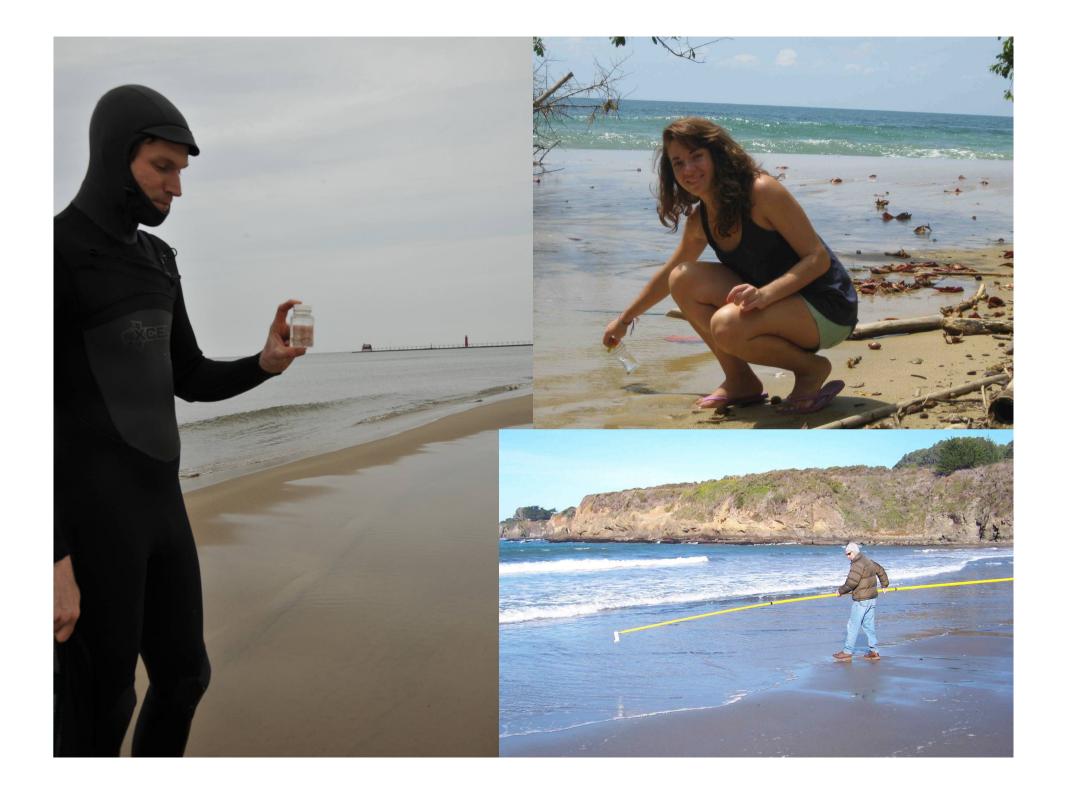




## Blue Water Task Force

- Volunteer water quality monitoring, education and advocacy program
- Test marine beaches and freshwater sources for Enterococcus bacteria
- IDEXX Quantitray Sealers
- Run by Chapters!!!





## Models of Operation

- Collect samples for partner organizations & help communicate data
  - University, State & local beach programs, & other watershed groups
- School & youth programs
- Chapter maintained labs often using borrowed space







## **Uses of Chapter BWTF Programs**

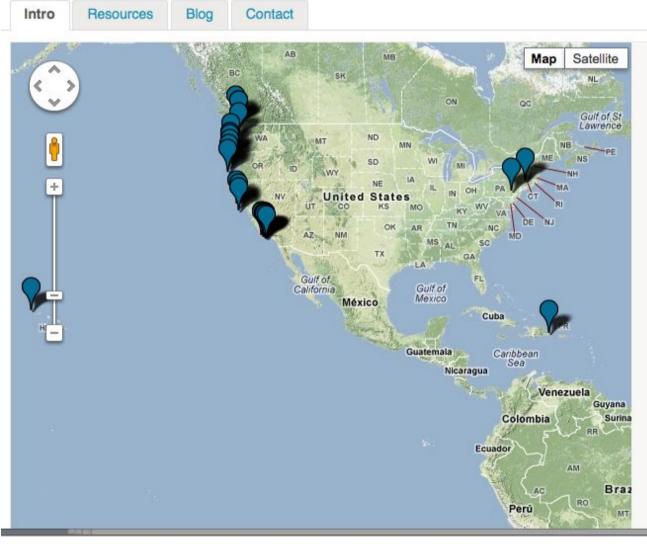
- Provide beach WQ information
- Education & water quality awareness
- Volunteer Activity & Recruitment
- Fill in data gaps (spatial & temporal)
- Management, participate directly in agency testing program
- Identify water quality problems
- Advocate for pollution solutions

## http://www.surfrider.org/blue-water-task-force



Surfrider Foundation's volunteer water quality monitoring program





#### WATER TESTING LABS

Newport Harbor HS/ Newport Beach Chapter, CA Northwood HS/ Newport Beach Chapter, CA Valencia HS/ Newport Beach Chapter, CA San Mateo County, CA Marin County, CA San Clemente HS / South OC Chapter, CA West LA/Malibu, CA Mater Dei HS/ Newport Beach Chapter, CA South Bay, CA Orange HS/ Newport

Beach Chapter, CA

Sonoma Coast, CA

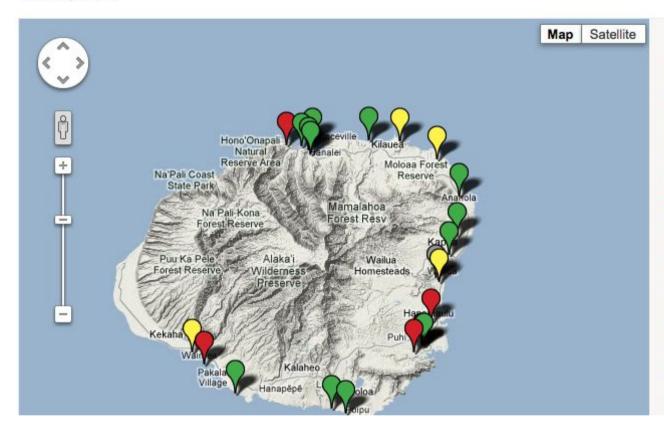
Corona Del Mar HS/ Newport Beach

Long Beach, CA

Chapter, CA

Vancouver, BC
Kaua'i, HI
Jersey Shore, NJ
Charleston, OR
Port Orford, OR
North Coast, OR
Depoe Bay, OR
Newport, OR
Florence, OR
Rincon, PR
Rhode Island, RI
South Sound, WA
Northwest Straits, WA
Seattle, WA

## KAUA'I



#### KAUA'I BEACHES

Hanamaulu Stream Pine Trees

Tested on: 04/14/2012 Tested on: 04/14/2012

Kalapaki Bay PK's

Tested on: 04/14/2012 Tested on: 04/14/2012

Kalihiwai Rock Quarry

Tested on: 04/14/2012 Tested on: 04/14/2012

Kapa'a Beach Park The Bowl

Tested on: 04/14/2012 Tested on: 04/14/2012

Kealia Waikokos

Tested on: 04/14/2012 Tested on: 04/14/2012

Lucy Wright Park,

Wainiha Stream

Waimea

Tested on: 04/14/2012

Tested on: 04/14/2012 Waiohai

Tested on: 04/14/2012

Tested on: 04/14/2012 Anahola Bay

Middles

Lydgate

Tested on: 03/17/2012

Tested on: 04/14/2012 Moloa'a

Nawiliwili Stream

Tested on: 03/17/2012

Tested on: 04/14/2012 Salt Pond

Niumalu Beach Park

Tested on: 02/11/2012

Sample Site	Test Date	▼ Entero	Indication of	- ♦
Hanamaulu Stream	04/14/12	830	High Bacteria	
Kalapaki Bay	04/14/12	10	Low Bacteria	
Kalihiwai	04/14/12	0	Low Bacteria	
Kapa'a Beach Park	04/14/12	0	Low Bacteria	
Kealia	04/14/12	10	Low Bacteria	
Lucy Wright Park, Waimea	04/14/12	52	Medium Bacteria	
Lydgate	04/14/12	85	Medium Bacteria	
Middles	04/14/12	10	<ul><li>Low Bacteria</li></ul>	
Nawiliwili Stream	04/14/12	743	High Bacteria	
Niumalu Beach Park	04/14/12	1081	High Bacteria	

#### Key

#### Enterococcus (MPN/100 ml):

(0-35) Low Bacteria

(36-104) Medium Bacteria

(> 104) High Bacteria

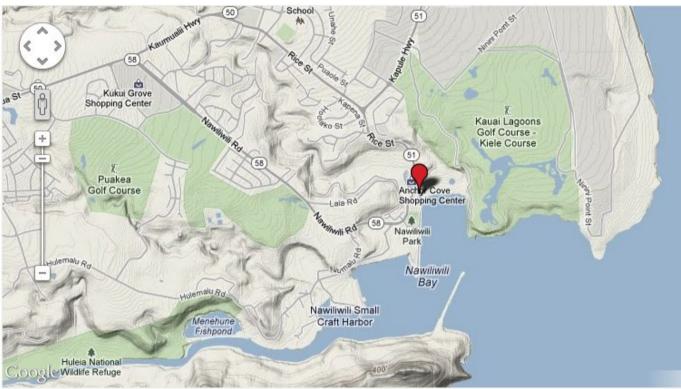
LOCAL INFORMATION

LOAD HISTORICAL DATA

Download

CSV DATA

### NAWILIWILI STREAM





Map data @2012 Google - Terms of Use

Test Date	~	Testing Individual	Entero	Indication of	
04/14/12		Dr Carl Berg	743	High Bacteria	Enterococcus (MPN/100 ml):
03/17/12		Dr Carl Berg	767	High Bacteria	(0-35) Low Bacteria (36-104) Medium Bacteria (> 104) High Bacteria
02/11/12		Dr Carl Berg	959	High Bacteria	
01/14/12		Dr Carl Berg	504	High Bacteria	(> 104) High Bactona
12/17/11		Dr Carl Berg	537	High Bacteria	Download

## Social Media



@emergenc Blue Water Task Force Alert! Check out the water quality results from Rincon, 04-18-2012,...

http://www.surfrider.org/blue-water-task...

Surfrider Foundation's volunteer water quality monitoring program



Mara Dias @MaraDawnDias

111

@emergenc Blue Water Task Force Alert! Check out the water quality results from Rincon, 04-18-2012, bit.ly/JuZSCb #Surfrider

## Social Media



THIS MONTHS BLUE WATER TASK FORCE RESULTS
STREAMS BAD

Enterococcus bacterial concentration per 100 ml Site Single day 6-month results geomean

Ke'e <10 2.3

Wainiha Stream 457 411.7

Wainiha surf 41

Waikoko 10 6.3

Middles 10 3.8

Pinetrees 20 6.3

Bowl <10 19.6

Kalihiwai <10 5.4



it!

Sonoma Coast Surfrider April 7 @

Clean water at Salmon-Blue water Task Force testing shows low and safe numbers for bacteria count at Salmon-have at





Surfrider Foundation @SurfriderSMC

14 Apr

H2OQ 4/13: SAFE > Rockaway Beach, Kelly Avenue; UNSAFE > Linda Mar N & S, San Vicente Creek, Surfer's Beach, Capistrano bit.ly/HGtADK

## Chapter Website



DONATE

WHO WE ARE

WHAT WE DO

TAKE ACTION

EVENTS

LOCAL WATER QUALITY

STORE

JOIN/RENEW

SUPPORT SURFRIDER

LOCAL WATER QUALITY

Overview

Capistrano

Kelly Avenue

Linda Mar North

Linda Mar South

Montara

Rockaway Beach

San Vicente Creek

Surfer's Beach

Home :: Local Water Quality

#### LOCAL WATER QUALITY

TESTING DATE

2012-04-20

LOCATION	SAMPLE TIME	RESULT	MPN	STATUS
Capistrano	9:20 AM	0/3	31	SAFE
Linda Mar South	7:55 AM	0/0	<10	SAFE
San Vicente Creek	8:15 AM	0/0	<10	SAFE
Surfer's Beach	8:40 AM	0/0	<10	SAFE
Kelly Avenue	9:00 AM	0/0	<10	SAFE
Rockaway Beach	7:30 AM	0/0	<10	SAFE
Linda Mar North	7:45 AM	0/0	<10	SAFE

#### **VOLUNTEER SPOTLIGHT**



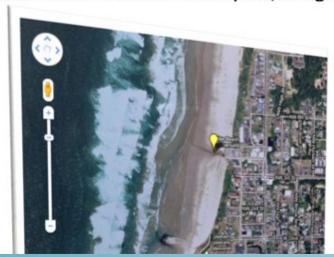
Kazu Ishidera Water Sample Collector

+ More Volunteers

# Kiosk: Oregon Coast Aquarium



This is a sample of the data processed from water samples taken at the Nye Beach Stormwater Outfall in Newport, Oregon.



Test Date	▼ Total Coliform		Entero 0	Indication of $\phi$
04/30/11		-	84	Medium Bacteria
04/30/11				Low Bacteria
04/23/11		5	332	High Bacteria
04/02/11			20	Low Bacteria
03/19/11			20	Low Bacteria
03/19/11		-	31	Low Bacteria
03/12/11	-	-	650	High Bacteria
03/12/11		2	583	High Bacteria
03/03/11			24196	High Bacteria
02/19/11		-	107	High Bacteria
02/12/11	2	2	109	High Bacteria
02/05/11	2	-	10	Low Bacteria
01/29/11		-	31	Low Bacteria
01/22/11		-	20	Low Bacteria
01/15/11	-	-	144	High Bacteria



# Traditional methods of data sharing

Email & Listservs

Flyers & bulletin boards

Presentations at local gov. meetings & community

forums

Press releases











- Multiple "Problems"
- Lack of organized effort
- Unsympathetic Council
- BWTF Undercover
- Small Constituency
- Small town dynamics



Collaborative

Advocacy

Direct Action Advocacy



- Newport Chapter Founded 2005
- BWTF Platform
  - Target Nye Watershed
  - Target Wastewater Treatmer
  - Target Pulp Mill
- Outreach and Community E
  - Council changes
  - Formation of Mayor's Group on Water Quality



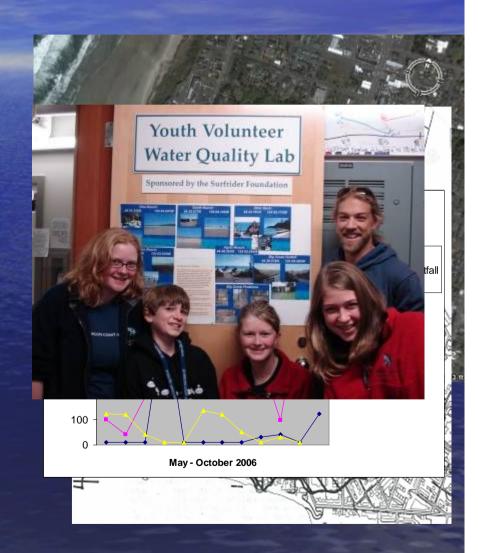
# Mayor's Group on Water Quality

- 2006-2007 "Band-Aids"
  - State Monitoring
  - Nye Creek Watershed
  - Additional Signage
  - BMP recommendations
- MGWQ disbanded 2007
  - Deemed "successful" by Mayor
  - BMPs in 2008





- Assessment of historical state and BWTF data
- Sourcing Plan
- Infrastructure mapping
- Creation of Nye ARMS





Surfrider partners with local agencies to promote clean water

- DEQ and LSWCDPartnerships
- Creation of Nye ARMS
- Mid-coast TMDL Technica Committee
- City Testing Partnership







- Code Updates
  - Stormwater Protectio
  - Pet Waste Ordinance
  - Stormwater Utility
  - Stormwater Disconne
  - Sewer Connection
- DEQ Supplemental Environmental Project
- Smoke and Dye Testing





